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## Office Memorandum • UNITED STATES GOVERNMENT

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то :	The Files - Contract RD-107, Task Order 12	DATE: 29 March 1960			
FROM:					
SU <b>BJECT</b> :	Trip Report - Miniature IF Amplifier 1/D /	07, 12 MAR. 60)			
	1. On 18 March 1960 a visit was made to				
	to monitor the progress made in developing miniature IF ceramic and crystal amplifiers. Persons present for discussions were:				
	- Project En Project En - OC-E/R+D	ngineer gineer, -EP			
	Chief Project Engineer, was no meeting because of illness.	t present for this			
	2. Two IF amplifiers are being developed under this program. One IF amplifier uses ceramic transformers as the bandpass determining element and the second IF amplifier uses a crystal filter as the bandpass determining element.				
	3. Ceramic Amplifier - This amplifier has been completely temperature tested over the extremes of plus and minus 40°C to ensure that the bandwidth and center frequencies remain within tolerances.  will soon conclude testing of the double conversion  amplifier so as to allow time for final packaging. The amplifier				
	should be ready for delivery to the Agency in 1960.	the late part of May			
	4. Crystal Filter - This crystal filter waround the latter part of February. transistorized amplifier stages around the crystal begin around the first of April 1960. a size of 2 x 1-1/8 x 3/4 inches which is sligh expected. There was an increase in size of appliances because of the difficulty in maintaining and bandpass rejection. Apparently, the proble proximity of the input and output capacitances and thus loading the circuit. The crystal filter	is to construct 3 stal filter, which The crystal filter has atly larger than proximately .35 cubic g proper selectivity em was traced to the causing interreaction			

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Trip Report - Miniature IF Amplifier

cubic inches in volume and with the addition of three transistor amplifiers stage the volume may reach 2.5 cubic inches. Originally it was believed that the volume would be approximately 2 cubic inches. In the case of the ceramic IF amplifier the volume may be slightly less than 2 cubic inches.

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Distribution:

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